

EPO-TEK® H20E-8

Epoxy; Epoxide

Epoxy Technology Inc.

Message:

EPO-TEK® H20E-8 is a two component, silver-filled epoxy system designed specifically for chip bonding in microelectronic and optoelectronic applications. It is a higher viscosity and higher thixotropic version of EPO-TEK® H20E.

General Information			
Filler / Reinforcement	Silver		
Features	Electrically Conductive		
	Fast Cure		
	Thixotropic		
Uses	Adhesives		
	Bonding		
	Electrical/Electronic Applications		
	LCD Applications		
	LEDs		
Agency Ratings	EC 1907/2006 (REACH)		
	EU 2003/11/EC		
	EU 2006/122/EC		
RoHS Compliance	RoHS Compliant		
Forms	Paste		
Physical	Nominal Value	Unit	
Ion Type			
Cl-	141	ppm	
NH4+	265	ppm	
Particle Size	< 45.0	µm	
Degradation Temperature	470	°C	TGA
Die Shear Strength - >5 kg (23°C)	11.7	MPa	
Operating Temperature			
Continuous	-55 to 250	°C	
Intermittent	-55 to 350	°C	
Storage Modulus (23°C)	5.46	GPa	
Thixotropic Index	4.85		
Weight Loss on Heating			
200°C	0.25	%	
250°C	0.37	%	

300°C	0.79	%	
Thermal	Nominal Value	Unit	
Glass Transition Temperature ¹	> 80.0	°C	
CLTE - Flow			
-- ²	2.6E-5	cm/cm/°C	
-- ³	1.1E-4	cm/cm/°C	
Thermal Conductivity	3.5	W/m/K	
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
Part A	Mix Ratio by Weight: 1.0		
Part B	Mix Ratio by Weight: 1.0		
Shelf Life (23°C)	26	wk	
Uncured Properties	Nominal Value	Unit	Test Method
Color			
-- ⁴	Silver		
-- ⁵	Silver		
Density			
Part A	2.71	g/cm ³	
Part B	4.32	g/cm ³	
Viscosity ⁶ (23°C)	10 to 20	Pa · s	
Curing Time (150°C)	1.0	hr	
Pot Life	4300	min	
Cured Properties	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	66		
Lap Shear Strength (23°C)	8.38	MPa	
Volume Resistivity (23°C)	< 4.0E-4	ohms · cm	
NOTE			
1.	Dynamic Cure 20-200°C/ISO 25 Min; Ramp -10-200°C @ 20°C/Min		
2.	Below Tg		
3.	Above Tg		
4.	Part B		
5.	Part A		
6.	20 rpm		

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